## WHAT IS CLAIMED IS:

1	1. A starter comprising:
2	a motor for generating a rotating force for an armature;
3	a planetary reduction assembly for reducing rotation of said armature
4	through a planetary gear;
5	a power transmission device formed into a cylindrical configuration and
6	integrated with a carrier made to support said planetary gear for transmitting
7	rotation of said carrier;
8	an output shaft whose motor-side end portion is spline-fitted in an inner
9	circumference of said power transmission device so that said output shaft is
10	movable by a predetermined quantity in its axial directions with respect to said
11	power transmission device;
12	a pinion shaft fitted through a pinion bearing over an outer circumferential
13	surface of said output shaft to be rotatable;
14	a pinion provided at an end portion of said pinion shaft on an opposite side
15	to a motor to be rotated integrally with said pinion shaft;
16	a one-way clutch for transmitting rotation of said output shaft to said
17	pinion shaft; and
18	a housing including a housing bearing located between said pinion and
19	said one-way clutch to support said pinion shaft so that said pinion shaft is
20	rotatable and slidable,
21	said output shaft being made to be moved integrally with said pinion shaft
22	and said one-way clutch in an opposite-of-motor side direction when an engine is
23	placed into a cranking condition so that said pinion engages with a ring gear of
24	said engine.

2. The starter according to claim 1, wherein, when said pinion shaft, together with said output shaft, is moved in the opposite-of-motor direction up to a position at which said pinion engages with said ring gear, a pinion-side end portion of said

- 4 pinion bearing protrudes toward a pinion side with respect to a pinion-side end
- 5 portion of said housing bearing.
- 1 3. The starter according to claim 1, wherein said pinion bearing includes a
- 2 first pinion bearing for supporting an opposite-of-motor side end portion of said
- 3 output shaft and a second pinion bearing located on a motor side with respect to
- 4 said first pinion bearing.
- 1 4. The starter according to claim 1, wherein said pinion bearing is made to
- 2 support a portion between an opposite-of-motor side end portion of said output
- 3 shaft and an inner diameter side of an inner portion constituting said one-way
- 4 clutch.
- 1 5. The starter according to claim 1, wherein said one-way clutch has a
- 2 cylindrical portion to cover an outer diameter portion of an opposite-of-motor end
- 3 portion of said power transmission device when said pinion is in a resting
- 4 condition.
- 1 6. The starter according to claim 1, wherein a motor-side end portion of said
- 2 output shaft, which has said spline, is recessed into a cylindrical configuration and
- an end portion of a shaft of said armature is inserted through a bearing into the
- 4 interior of said cylindrical configuration.